

**TARGETED MOLECULAR BAR CODES AND
METHODS FOR USING THE SAME**

ABSTRACT OF THE DISCLOSURE

5 Targeted molecular bar codes and methods for using the same are provided. The subject targeted molecular bar codes include a molecular bar code and a member of a specific binding pair, where the specific binding pair member is generally bonded to the bar code through a linking group. The subject molecular bar code may be read during translocation through a single nano-meter scale pore. The subject targeted
10 molecular bar codes find use in a variety of different applications involving analyte detection, such as screening and diagnostic applications.